Everyone Wants a Diamond Smile!

Edgar Luna, DMD
What Makes a Beautiful Smile?

- Seven Things Really Want To Focus On:
  - Length- Youthful vs Older
  - Shape - Feminine vs Masculine
  - Material/Color
  - Golden Proportions/Number of Teeth
  - Embrasure Spaces!!
  - Gingival Symmetry
  - Texture
Embrasure Spaces

Ideal Tooth Morphology

Posterior Enlargement of Embrasures
Embrasure Spaces

 Ideal Tooth Morphology

Contact moves from incisal to middle of tooth
Where We Mess Up!

**Ideal Tooth Morphology**

- Central
- Lateral
- Cuspid

**Facial Contour**
Where We Mess Up!

Ideal Tooth Morphology

Central  Lateral  Cuspid

Facial Profile
No Communication!!
Visual Signs of Bruxism

• Wear facets
• Chipped/fractured teeth
• Gingival recession
• Abfraction lesions
• Loss of Vertical Dimension!
• Torus/Exostosis
Symptoms of Bruxism

- Sensitive teeth
- Jaw pain
- Stuffy/ringing ears
- Sinus problems
- Vision problems
- Headaches!!
- Neck pain
- Shoulder/arm pain
- Tingling/numbness in fingertips
Three Schools of Thought

- Centric Relation
- Neuromuscular
- Spear Philosophy
Spear

• Based on appearance
• Similar to dentures
• “f” and “s” sounds, “Emma”
• Believes all occlusion philosophies have some errors so if it looks good and functions properly, that is the right occlusion.
• My concern- no real science behind that
Centric Relation

• Is the mandibular jaw position in which the condyle is situated as far anteriorly and superiorly as it possibly can within the mandibular fossa.

• Concern is that it is manipulated and controlled by the dentist.
Centric Relation

- Centric relation (CR) is the most controversial concept in dentistry. The concept of CR emerged due to the search for a reproducible mandibular position that would enable the prosthodontic rehabilitation. Research in the field of CR has been controversial for more than 100 years. There are over 26 definitions of CR since the term was first developed as a starting point for making dentures. - *Indian Prosthodont Soc*. 2013 Sep; 13(3): 149–154.
Neuromuscular Dentistry

• Differs from centric relation in that it measures muscle activity and where the muscles want the jaw/bite to be positioned.

• Dr Jankelson is the father of neuromuscular dentistry and introduced it in 1967.

• Has come on strong in the last 30 years.
Shimbashi Measurement

• Dr Henry Shimbashi was a practicing dentist in Edmonton, Alberta who passed away in 2014.
• He did research on 500 patients
• Measurement is gum line to gum line of the maxillary and mandibular incisor
• Ideal distance is 19 mm +/- 1 mm!
LVI GOLDEN SHIMBASHI

Height to Width Ratio = 77.5% or Length equals 1.29 x the Width

Golden Proportion = 1.618

All numbers are rounded out to the nearest .25 mm.

<table>
<thead>
<tr>
<th>Width of Central</th>
<th>Ideal Length</th>
<th>LVI Golden Shimbashi</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mm</td>
<td>9 mm</td>
<td>14.5 mm</td>
</tr>
<tr>
<td>7.5 mm</td>
<td>9.75 mm</td>
<td>15.75 mm</td>
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<tr>
<td>8 mm</td>
<td>10.5 mm</td>
<td>17 mm</td>
</tr>
<tr>
<td>8.5 mm</td>
<td>11 mm</td>
<td>17.75 mm</td>
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<tr>
<td>9 mm</td>
<td>11.5 mm</td>
<td>18.5 mm</td>
</tr>
<tr>
<td>9.5 mm</td>
<td>12.25 mm</td>
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<tr>
<td>10 mm</td>
<td>13 mm</td>
<td>21 mm</td>
</tr>
<tr>
<td>10.5 mm</td>
<td>13.5 mm</td>
<td>22 mm</td>
</tr>
</tbody>
</table>
"TMJ" Pt

- Shimbashi normal
  - Splint
- Shimbashi diminished
  - Splint then equilibrate
  - Neuromuscular
Categories of Cements

Conventional Cements

Self-adhesive Cements

Adhesive Cements

Multilink® Automix
Variolink® Esthetic
RelyX™ Ultimate*

SpeedCEM® Plus
RelyX™ Unicem 2*
Maxcem Elite™*

RelyX™ Luting Plus*,
FujiCEM™*
(Zinc phosphate,
Carboxylate, RMGI,
Glass Ionomer)

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Efficient Process

Zirconia Material

Ivoclean Cleaning Agent

Self-adhesive Resin Cement

Cleaning Agent ideal for zirconium oxide

SpeedCEM Plus

Self-adhesive Resin Cement
THANK YOU!

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- Burdette Dental Lab
- BurdetteDental.com
- 800-624-5301

- Myotronics
- 800-426-0316
- www.myotronics.com
- J5 Tens
- K7 Evaluation System